

New York, N.Y. 10022

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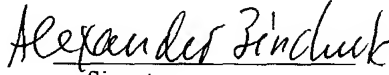
Date: March 21, 2002

JC07 Rec'd PCT/PTO 21 MAR 2002

I hereby certify that this correspondence is being deposited with the United States postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Angela Faly
Angela Faly

Form PTD 1390 Department of Commerce Patent and Trademark Office		Attorney's Docket Number: DT-6145
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED ELECTED OFFICE (DO/EOUS) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. Acquisition No. (if known, see 37 CFR 15) 10/088847
INTERNATIONAL APPLICATION NO. PCT/EP00/09290	INTERNATIONAL FILING DATE September 22, 2000	PRIORITY DATE CLAIMED September 22, 1999
TITLE OF INVENTION METHOD AND DEVICE FOR GENERATING A HIGH-RESOLUTION LARGE IMAGE		
APPLICANT(S) FOR DO//US Peter Ritterskamp		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f) at any time rather than delay examination until the expiration of the applicable time limit set as 35 U.S.C.371(b) and PCT Articles 22 and 39(1). 4. <input type="checkbox"/> A proper demand for International Preliminary Examination was made by the 19 th month from the earliest claimed priority date. 5. <input checked="" type="checkbox"/> A copy of the International Application as filed 935 U.S.C. 371(C)(2) a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US) 6. <input checked="" type="checkbox"/> A TRANSLATION OF THE International Application into English 935 U.S.C. 371(c)(2). 7. <input type="checkbox"/> Amendments to the claims of the International Application under pct Article 19 (35 U.S.C. 371(c)(3) a. <input type="checkbox"/> are transmitted herewith (required if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). UNSIGNED 10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).		
Items 11. To 16. Below concern other document(s) or information included:		
11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98 with 6 reference(s) 12. <input type="checkbox"/> An Assignment document for recording. A Separate cover sheet in compliance with 37 CFR 3.28 and 3.31 are included. 13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 14. <input type="checkbox"/> A substitute specification 15. <input type="checkbox"/> A change or power of attorney and/or address letter. 16. <input checked="" type="checkbox"/> other items or information:		
1. Second copy of this transmittal letter	4. International Search Report	
2. PCT Request	5.	
3. 3 Sheet of Drawings		

Application No. if known see 37 CFR 1.1250 107088847		International Application No PCT/EP00/09290		Attorney's Docket No.: DT-6145			
17. <input type="checkbox"/> The following fees are submitted; Basic National Fee (35 cfr 1,492 (a)(1)-95): Search Report has been prepared by the EPD OR JPO.....\$ 890.00 International preliminary fee paid to USPIO (37 CFR 1.482).....670.00 No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to up to (37 CFR 1.445 9a)(2))760.00 Neither international preliminary fee (37 CFR 1.482) nor international search fee (37 CFR 1.445A)(2)) paid to up to970.00 International preliminary examination fee paid to paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1(-94) 96.00 ENTER APPROXIMATE BASIC FEE AMOUNT =				CALCULATIONS		PTO-USE ONLY	
				\$ 890.00			
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 39 months from the earliest claimed priority date 937 CFR 1.482)				\$			
Claims	Number Filed	Number Extra	Rate				
Total Claims	6- 20	0	x \$ 18.00	\$ 00.00			
Independent Claims	2- 3	0	x \$ 78.00	\$ 00.00			
Multiple dependent claims(s) (if applicable) = \$ 260.00				\$ 00.00			
TOTAL OF ABOVE CALCULATIONS =				\$ 890.00			
Reduction by 1/2 for filing by small entity, if applicable. (Applicant(s) is entitled to small entity status). (Note 37 CFR 1.9, 1.27, 1.28)				\$ 445.00			
SUBTOTAL =				\$ 445.00			
Processing fee of \$130.00 for furnishing English translation later than <input type="checkbox"/> 10 <input type="checkbox"/> 30 months from the earliest priority date 937 CFR 1.492(F))				\$			
TOTAL NATIONAL FEE =				\$ 445.00			
Fee for recording the enclosed assignment (37 CFR 1.21(H)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). 40.00 per property				\$ 00.00			
TOTAL FEES ENCLOSED				\$ 445.00			
				Amount to be:			
				Refunded		\$	
				Charged		\$ 445.00	
a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed. b. <input checked="" type="checkbox"/> please charge my Deposit Account No. 50-0955 in the amount of \$ <u>445.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>50-0955</u> . A duplicate copy of this sheet is enclosed.							
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFT 1.37(a) or 9b) must be filed and granted to restore the application to pending status.							
SEND ALL CORRESPONDENCE TO: SIDLEY AUSTIN BROWN & WOOD, LLP One World Trade Center New York, NY 10048				<div style="margin-bottom: 20px;">  Signature </div> <div style="margin-bottom: 20px;"> <u>Alexander Zinchuck</u> Name </div> <div> _____ Registration No. 30,541 </div>			

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DT-6145

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Express MAIL number ET 537 672 578 US Deposited March 21, 2002, I hereby certify that this paper or fee is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patents, Washington, D.C. 20231

Angela Faly
Angela Faly

UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Peter Ritterskamp

SERIAL NO.: Not Yet Known (PCT/EP00/09290)

FILED: Concurrently

FOR: Method and Device for Generating a High Resolution Large Image

EXAMINER: — GROUP: —

Commissioner for Patents
Washington, D.C, 20231
Box: PCT

PRELIMINARY AMENDMENT

Sir:

Please amend the above-referenced application before action on merits as follows:

In the Claims:

Amend Claim 1 as follows:

1. (Amended). Method for generating a high resolution large image on the front side of a surface (1), in particular on a building façade, **characterized in that** a large number of light passage openings (3) are each illuminated from inside toward outside by preferably one projector (5) so as to generate a partial image, in particular by a video projector in the form of a light source with changeable, high-resolution motifs.

In the Abstract:

Please add an abstract as follows:

- - Abstract of the Disclosure

A method of generating a high-resolution large image on a building façade includes illumination of a large number of light passage openings (3) by a video projector that serves as a light source. - -.

REMARKS

By the present Amendment, Claim 1 is amended to yet more clearly define the present invention, and an abstract of the Disclosure is added.

An early action on Merits is respectfully requested.

Respectfully Submitted,

Alexander Zinchuk
Alexander Zinchuk
Reg. No. 30,541

Dated: March 21, 2002
Sidley Austin Brown & Wood LLP
875 Third Avenue
New York, N.Y. 10022
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DT-6145

PCT/EP00/09290

Patent Claims:

(Amended).

1. Method for generating a high-resolution large image on the front side of a surface (1), in particular on a building façade. **characterized in that a** large number of light passage opening (3) are each illuminated by from inside toward outside preferably one projector (5) so as to generate a partial image, in particular by a video projector in the form of a light source with changeable, high-resolution motifs
2. Method according to claim 1, **characterized in that** the light passage openings (3) are the windows of the façade (1)
3. Device for generating a high-resolution large image on the front side of a surface (1), in particular on a building façade, with
 - a large number of light passage openings (3) and
 - a large number of projectors (5) for illuminating the light passage openings (3), **characterized in that** the projectors (5) are configured as light sources with changeable, high-resolution motifs.

Method and Device for Generating a High-Resolution Large Image

Field of the Invention

The invention relates to a device for generating a high-resolution large image on a surface, in particular on a building façade, whereby a large number of light passage openings are each illuminated by a video projector.

Description of the Invention

This invention is based on the task of proposing a method and device for generating a high-resolution large image on a building façade, which allow for a better use of such façades for advertising and other purposes. The invention aims at making it possible to project high-resolution large images in an improved quality onto any side of a building, in particular onto the building façade.

This task is solved substantially by illuminating each light passage opening preferably with one projector that produces a section of the image (partial image).

By proceeding in such manner, it is possible to generate a wide variety of aesthetic, high-resolution large images.

According to a further development of the invention, it is proposed that the light passage openings shall be the windows of the façade. Moreover, the light passage openings are conveniently illuminated from the rear side located across from the front side of the surface, i.e. from the inside of the room onto the window to be illuminated toward the outside, to which end the projectors are arranged preferably in the area of the rear side located across from the front side of the façade, or in the area of the ceiling.

Since the realization of an image of good quality requires a good distribution of light across the entire surface of each illuminated window, it is also proposed, preferably, that the windows are illuminated in such a way that the window, across its substantial surface, generates a partial image on the front side of the façade. This is made possible, in particular, by applying a coating, adhesive film or blind to the window, which is illuminated by the light source.

The device according to the invention features a large number of light passage openings and a large number of projectors for the illumination of the light

passage openings, which produce a high-resolution overall image on the front side of the façade.

Furthermore, control devices may be provided, with which the partial images are assigned to the individual projectors, thus allowing for the creation of a high-resolution overall image. An example of an embodiment of the invention is shown in the drawings.

Commercial Usability

It is possible to illuminate buildings, in particular buildings with façades consisting largely of glass surfaces, e.g. industrial or commercial enterprises, in a special way at night, such that a high-resolution large image is produced. To this end, the individual light passage openings (e.g. windows) of the façade are used as image sections (partial images) so that high-resolution large images, for instance promotional films or stock exchange quotations, are displayed across the entire façade.

Brief Description of the Drawings

The drawings show:

Fig. 1 a schematic view of the façade of a high-rise building;

Fig. 2 a cross-section through a room in the area of the building façade; and

Fig. 3 section “Z” from Fig. 1.

Ways to Perform the Invention

Fig. 1 shows a schematic representation of a façade 1 of a building 2. Façade 1 shows a large number of light passage openings (windows) 3. Each window 3 can be illuminated by a projector 5, represented in greater detail in Fig. 2. In the example shown, a number of windows 3 are illuminated in such a way that a high-resolution image of a fish is produced.

Fig. 2 shows in greater detail how the device is set up for illuminating a window. The figure is a cross section through the building 2 showing the detail of a story or building section 4. The window 3 shall be illuminated from the side located opposite of the façade 1 by a projector 5 generating a partial image.

In order to illuminate the entire surface of the window 3, it is proposed that a film or rear projection screen 6 is applied to the window glass. The material is translucent, but ensures that the light from the projector 5 is captured and

distributed across the entire surface of the window. Preferably, a plastic film or a rear projection screen should be used to this end.

Patent Claims:

1. Method for generating a high-resolution large image on the front side of a surface (1), in particular on a building façade, **characterized in that** a large number of light passage opening (3) are each illuminated by preferably one projector (5) so as to generate a partial image, in particular by a video projector in the form of a light source with changeable, high-resolution motifs.
2. Method according to claim 1, **characterized in that** the light passage openings (3) are the windows of the façade (1).
3. Device for generating a high-resolution large image on the front side of a surface (1), in particular on a building façade, with:
 - a large number of light passage openings (3) and
 - a large number of projectors (5) for illuminating the light passage openings (3), **characterized in that** the projectors (5) are configured as light sources with changeable, high-resolution motifs.

4. Device according to claim 3, **characterized in that** the projectors (5) are arranged in the area of the rear side located across from the front side of the surface (1) or in the area of the ceiling.
5. Device according to claim 3 or 4, **characterized in that** the inside and/or outside of the light passage openings (3) is covered with a coating (7), preferably with an adhesive film or a blind.
6. Device according to one of claims 3 to 5, **characterized by** a control device, by which the light passage openings are provided each with a partial image and are centrally controlled.

(12) NACH DEM VERTRAG ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES
PATENTWESENS (PCT) VERÖFFENTLICHTE INTERNATIONALE ANMELDUNG

(19) Weltorganisation für geistiges Eigentum
Internationales Büro



(43) Internationales Veröffentlichungsdatum
29. März 2001 (29.03.2001)

PCT

(10) Internationale Veröffentlichungsnummer
WO 01/22394 A1

- (51) Internationale Patentklassifikation⁷: G09F 19/18, (74) Anwalt: BERGEN, Klaus; Alt-Niederkassel 75, 40547 Düsseldorf (DE).
15/00, 19/22
- (21) Internationales Aktenzeichen: PCT/EP00/09290 (81) Bestimmungsstaaten (*national*): AE, AU, BR, CA, CN, CZ, HR, HU, ID, IN, JP, KP, KR, MX, PL, PT, RU, SG, TR, US.
- (22) Internationales Anmeldedatum: 22. September 2000 (22.09.2000)
- (25) Einreichungssprache: Deutsch (84) Bestimmungsstaaten (*regional*): europäisches Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).
- (26) Veröffentlichungssprache: Deutsch
- (30) Angaben zur Priorität:
199 45 301.2 22. September 1999 (22.09.1999) DE
299 19 978.9 22. September 1999 (22.09.1999) DE
- (71) Anmelder (für alle Bestimmungsstaaten mit Ausnahme von US): THEISEN, Claudia [DE/DE]; Siegstrasse 13, 40219 Düsseldorf (DE).
- (72) Erfinder; und
- (75) Erfinder/Anmelder (nur für US): RITTERSKAMP, Peter [DE/DE]; Zieglerstrasse 23, 40787 Ratingen (DE).

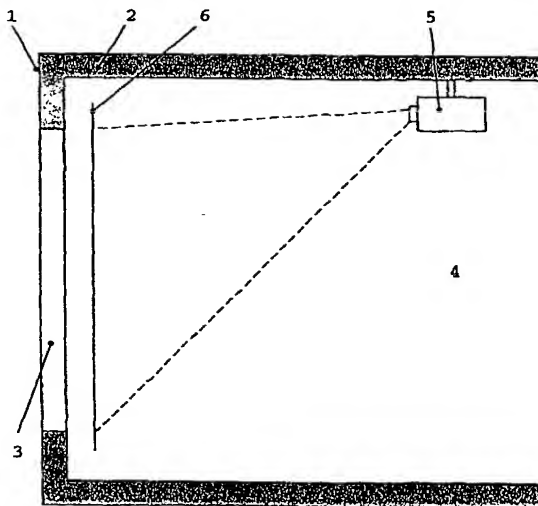
Veröffentlicht:

- Mit internationalem Recherchenbericht.
- Mit geänderten Ansprüchen.

Zur Erklärung der Zweibuchstaben-Codes, und der anderen Abkürzungen wird auf die Erklärungen ("Guidance Notes on Codes and Abbreviations") am Anfang jeder regulären Ausgabe der PCT-Gazette verwiesen.

(54) Title: METHOD AND DEVICE FOR GENERATING A HIGH-RESOLUTION LARGE IMAGE

(54) Bezeichnung: VERFAHREN UND VORRICHTUNG ZUR ERZEUGUNG EINES HOCHAUFLÖSENDEN GROSSBILDES



(57) Abstract: The invention relates to a method and device for generating a high-resolution large image on a building façade (1). To this end, light passage openings (3) are illuminated by a projector.

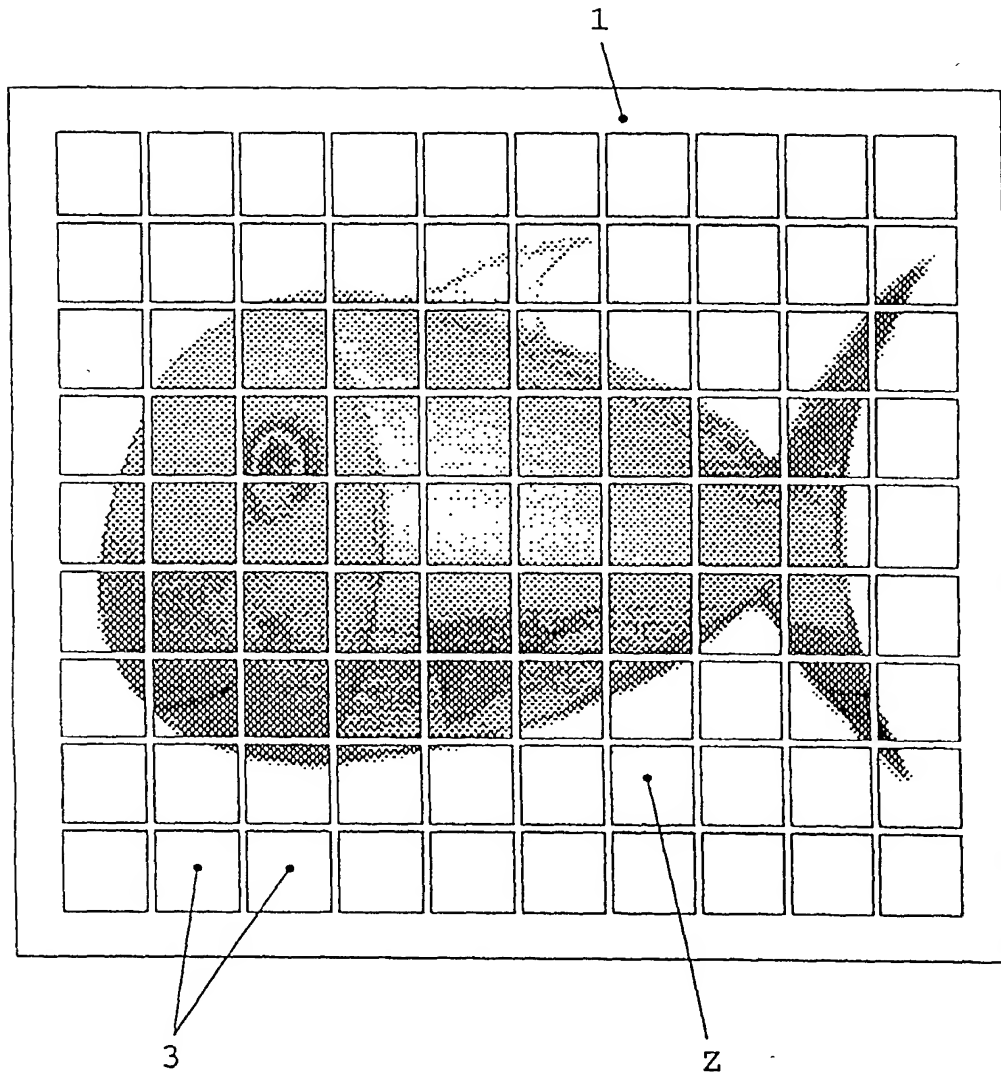
(57) Zusammenfassung: Zur Erzeugung eines hochauflösenden Großbildes auf einer Gebäudefassade (1) werden deren Lichtdurchtrittsöffnungen (3) jeweils mit einem Projektor angestrahlt.



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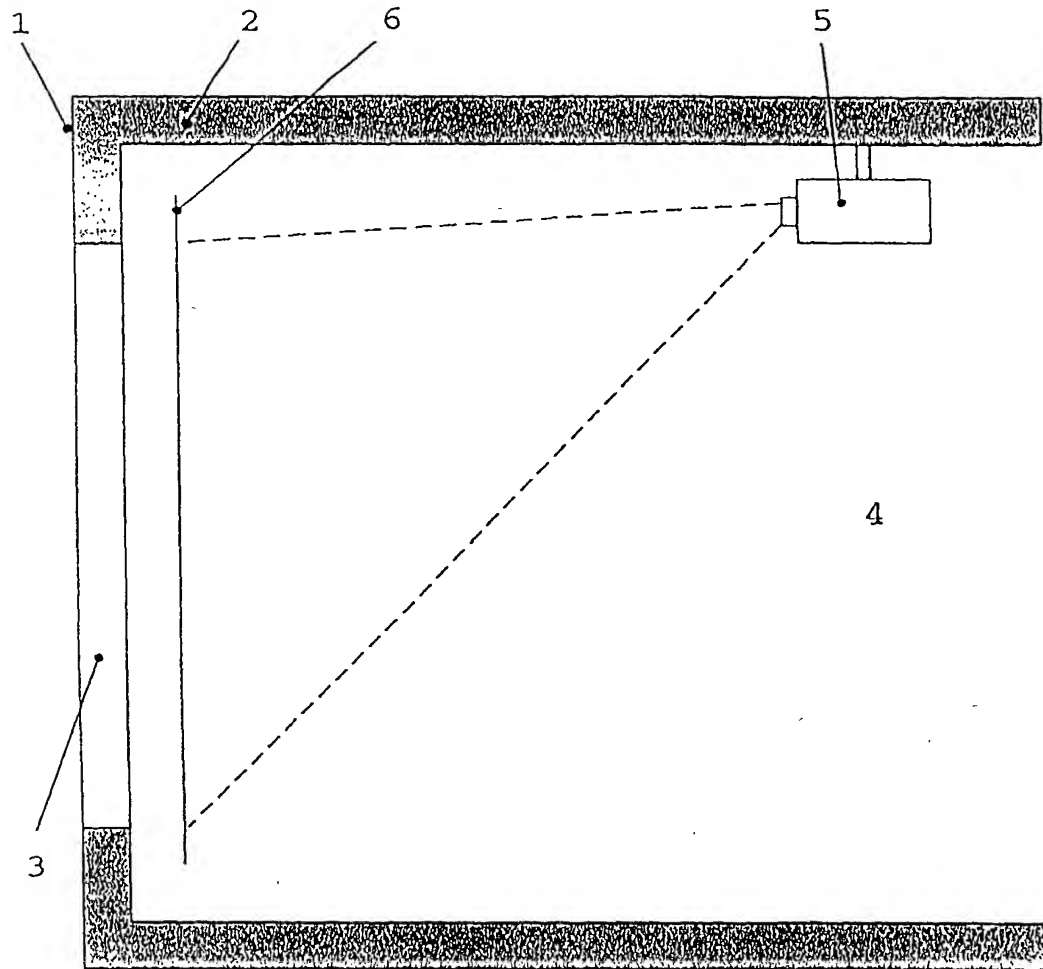
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Fig. 1



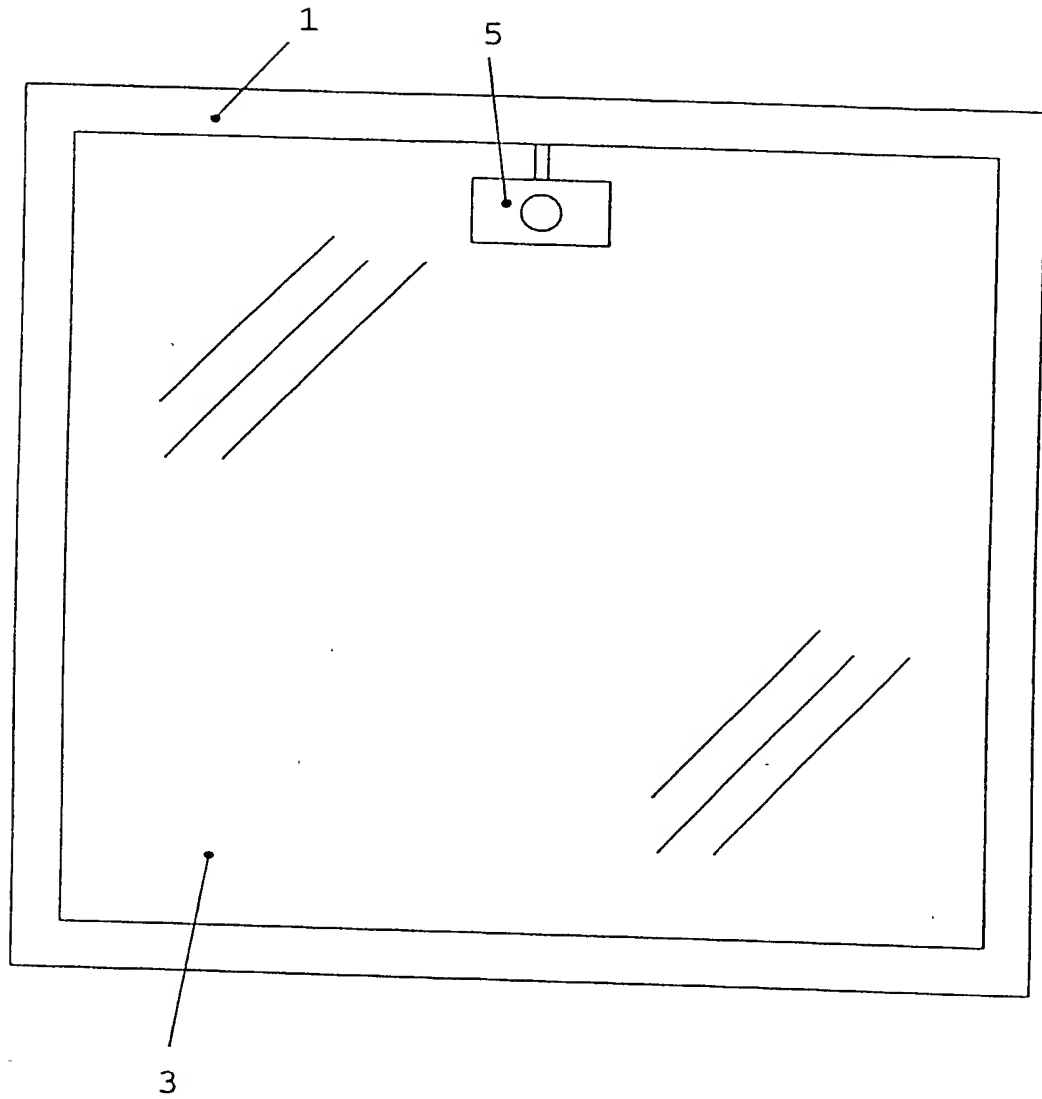
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Fig. 2



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Fig. 3



Declaration and Power of Attorney for Patent Application
Erklärung Für Patentanmeldungen Mit Vollmacht
German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt.

Dass mein Wohnsitz, meine Postanschrift, und meine Staatsangehörigkeit den im Nachstehenden nach meinem Namen aufgeführten Angaben entsprechen,

Dass ich, nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent beantragt wird für die Erfindung mit dem Titel:

Verfahren und Vorrichtung zur Erzeugung eines
hochauflösenden Grossbildes

Deren Beschreibung
(zutreffendes ankreuzen)

☒ hier beigelegt ist.

☐ am _____ unter der
Anmeldungsseriennummer _____
eingereicht wurde und am _____
abgeändert wurde (falls tatsächlich abgeändert).

Ich bestätige hiermit, dass ich den Inhalt der obigen Patentanmeldung einschliesslich der Ansprüche durchgesehen und verstanden habe, die eventuell durch einen Zusatzantrag wie oben erwähnt abgeändert wurde.

Ich erkenne meine Pflicht zur Offenbarung irgendwelcher Informationen, die für die Prüfung der vorliegenden Anmeldung in Einklang mit Absatz 37, Bundesgesetzbuch, Paragraph 1.56(a) von Wichtigkeit sind, an.

Ich beanspruche hiermit ausländische Prioritätsvorteile gemäss Abschnitt 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 119 aller unten angegebenen Auslandsanmeldungen für ein Patent oder eine Erfindersurkunde, und habe auch alle Auslandsanmeldungen für ein Patent oder eine Erfindersurkunde nachstehend gekennzeichnet, die ein Anmeldedatum haben, das vor dem Anmeldedatum der Anmeldung liegt, für die Priorität beansprucht wird.

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled.

METHOD AND DEVICE FOR GENERATING A
HIGH-RESOLUTION LARGE IMAGE

The specification of which
(check one)

☒ is attached hereto.

☐ was filed on _____
Application Serial No. _____
and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

(Musical notation for the first system of the score)

Priority Claimed

[X]	[]
Yes	No
Ja	Nein

[X]	[]
Yes	No
Ja	Nein

<input type="checkbox"/>	<input type="checkbox"/>
Yes	No
Ja	Nein

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

_____ pending
(Status)
(patented, pending,
abandoned)

(Status)
(patented, pending,
abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statement and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

German Language Declaration

VERTRETUNGSVOLLMACHT: Als benannter Erfinder beauftrage ich hiermit den nachstehend benannten Patentanwalt (oder die nachstehend benannten Patentanwälte) und/oder Patent-Agenten mit der Verfolgung der vorliegenden Patentanmeldung sowie mit der Abwicklung aller damit verbundenen Geschäfte vor dem Patent- und Warenzeichenamt:

David Toren
Alexander Zinchuk
Ronit Gillon
Paul Scott

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

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Reg. No. 30,541
Reg. No. 39,202
Reg. No. 47,071

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Unterschrift des Erfinders **Datum**

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Inventor's Signature **Date**

Full name of the first or sole inventor

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Voller Name des zweiten Mitfinders

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GERMANY

Staatsangehörigkeit

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Inventor's Signature **Date**

P. Ritterskamp

Full name of the second joint inventor, if any

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Citizenship

GERMAN

Post Office Address

S.O.